



Certificate of Analysis

GM-CSF Protein, Human (CHO)

Cat. No.:	HY-P7016
Batch No.:	29594
Species:	Human
Source:	CHO
Tag:	Tag Free
Accession:	P04141 (A18-E144)
Gene ID:	1437
Molecular Weight:	22-28 kDa

ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	97.00%
Endotoxin Level	<0.2 EU/μg, determined by LAL method.	PASS
Biological Activity	The ED ₅₀ is <0.2 ng/mL as measured by TF-1 cells, corresponding to a specific activity of >5 × 10 ⁶ units/mg.	0.054 ng/mL
Appearance	Lyophilized powder.	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

Caution: Product has not been fully validated for medical applications. For research use only.

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